Pall Corporation

Ultipor® GF Plus Series Filter Elements

Description

Ultipor® GF Plus filters have a pleated high area construction for long service life. The medium uses a binder resin which coats the glass fibers, imparting a positive zeta potential in aqueous service. The resin also bonds the glass fibers to a polyester substrate, producing a rugged composite medium. Applications for such filters are numerous as most suspensions are negatively charged in aqueous solution, including not only particles but bacteria and viruses. Some Ultipor GF Plus filter grades efficiently remove sub-microscopic haze from a wide variety of pharmaceuticals and cosmetics, including colognes.

Ultipor GF Plus filters have a fixed pore construction which precludes unloading or media migration.

Ultipor GF Plus elements with polypropylene hardware in a double open-ended UNI CAP configuration are rated to withstand differential pressures of 5.2 bard (75 psid) @ 38°C (100°F) and 3.1 bard (45 psid) @ 82°C (180°F).

When constructed in a single open-ended AB configuration, the element can withstand differential pressures of 5.2 bard (75 psid) @ 27°C (80°F) and 3.8 bard (55 psid) up to 82°C (180°F).

Ultipor GF Plus Filter

Removal ratings

Cartridge Grade	Liquid Service[3] Rating in Microns at % Efficiency		Aqueous Clean Pressure Drop Per 25.4 cm (10 in) Module (MBARD/LPM) / (PSID/GPM)[4]	Typical Aqueous Flow Per 25.4 cm (10 in) Cartridge (LPM/GPM)
	99%	99.98%		
U010Z	0.6[2]	1	3.09 / 0.17	7.6 - 11.4 / 2-3
U2-20Z	0.8[2]	2	2.55 / 0.14	7.6 - 11.4 / 2-3
U030Z	2.0	3	1.82 / 0.10	7.6 - 11.4 / 2-3
U6-40Z	3.2	6	0.91 / 0.05	11.4 - 18.9 / 3-5
U100Z	6.0	10	0.55 / 0.03	11.4 - 18.9 / 3-5
U200Z	17.0	20	0.36 / 0.02	11.4 - 18.9 / 3-5
U400Z	25.0	40	0.27 / 0.015	15.1 - 26.5 / 4-7

Ordering Information

DOE - Pall Part Number = PUY 1 2 3

SOE - Pall Part Number = AB 1 2 4 5

Table 1

Code	Cartridge lengths (cm/in)
1	25.4 / 10
2	50.8 / 20
3	76.2 / 30
4	102 / 40

Table 2

Code	Cartridge
U010Z	U010Z
U2-20Z	U2-20Z
U030Z	U030Z
U6-40Z	U6-40Z
U100Z	U100Z
U200Z	U200Z
U400Z	U400Z

Table 3

Code	Gasket option
J	Ethylene propylene (std)
H13	Nitrile
H	Fluorocarbon elastomer

Table 4

Code	End Fittings	
	O-ring fitting I.D. (In)	O-ring replacement size
3, 8	1 ¼	222
7	1 ½	226

Table 5

Code	O-ring option
JH4	Silicone
H	Fluorocarbon elastomer
J	Ethylene propylene

Housing Information

Housings are available in either polypropylene, carbon steel, or stainless steel and can accommodate 1 to 152, 10 in modules per housing.

[1] These grades are particularly useful as prefilters, in addition to providing absolute removal efficiency.

[2] Extrapolated value.

[3] Liquid service ratings are based on a modified OSU F-2 protocol for recording removal efficiency based on particle counting techniques.

[4] Pressure drop in MBARD/LPM (PSID/GPM) for water for a single 25.4 cm (10 in) module. Multiply this value by the required flow to determine the total aqueous pressure drop. Next, for fluids other than water, multiply by viscosity in centipoise. If this calculated pressure drop is excessive, then divide this value by the number of 25.4 cm (10 in) modules required to reduce this pressure drop to an acceptable level.

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